

### **WHAT IS CLAIMED IS:**

1. A linear guide way with assembling end-cup comprising:

a rail, on both sides surfaces of which is respectively provided with a sliding groove parallel to the rail;

5 a slide block slidably mounted onto the guide way, the slide block interiorly provided with sliding groove used to cooperate with the sliding groove of the rail;

a plurality of rollers received and rolling in the sliding groove between the rail and the slide block, so as to reduce the sliding friction  
10 between the slide block and the rail;

an end-cup fixed to both ends of the slide block and interiorly provided with circulation passage for enabling the rollers to roll in circles;

the end-cup including base-part and out-cover, the base-part having at least two sets of guiding holes, through the guiding holes the  
15 rollers can be filled in the slide block easily and quickly, the out-cover being provided on an outer surface of the base-part, the out-cover defined with at least two circulation passages used to cooperate with the guiding holes, so as to form a complete circulation path.

2. The linear guide way with assembling end-cup as claimed in  
20 claim 1, wherein the slide block is interiorly provided with roller retainers for preventing disengagement of the rollers, the base-part is able to position the roller retainers.

3. The linear guide way with assembling end-cup as claimed in

claim 1, wherein a side of the out-cover abutting against the base-part is provided with locking pins, whereas on the corresponding position of the base-part is defined with locating holes, such that the out-cover can be accurately fixed to the base-part.

5           4. The linear guide way with assembling end-cup as claimed in claim 1, wherein between the guiding holes of each set is formed with a curved surface configured to cooperate with the circulation passage, so as to enable the rollers to smoothly roll through the circulation passage.

          5. The linear guide way with assembling end-cup as claimed in  
10 claim 1, wherein the out-cover is made of elastoplastics.

          6. A method for assembling rollers to linear guide way, wherein a linear guide way is the linear guide way as claimed in claim 1 which respectively provided at both ends with an end-cup, the method for assembling the rollers is initially by fixing a first base-part and a first out-  
15 cover to an end of a slide block, and then fixing a second base-part to an opposite end of the slide block, and followed by filling the rollers into the slide block via the guiding holes on the outer surface of the second base-part, after the rollers have been filled in the slide block and then fixing a second out-cover to the second base-part so as to form a complete  
20 circulation path, and thus the assembly is finished.

          7. A method for assembling rollers to linear guide way as claimed in claim 6, wherein an automatic machine can be fit in the guiding holes for filling the rollers in the slide block automatically, by

this way, the assembly time can be substantially reduced.